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The **WALTER A. TUCKER CO.**

Aquarists and Water Gardeners

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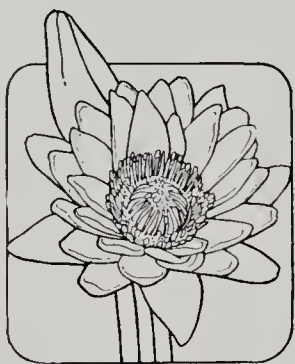
1593 Manchester Avenue
COLUMBUS, OHIO

Water Lilies
Aquatic Plants
Ornamental Fishes



ANYONE CAN GROW WATER LILIES

Enjoy a Pool of Your Own



THE requirements for water lily culture are so simple and easily provided for, that experience is not necessary in making a successful water garden, and almost any yard will provide space enough for at least a tub water garden or a small concrete pool. Plenty of sunlight and a little rich soil are the other essentials.

A wash tub or half barrel sunk in a sunny spot will grow a water lily plant and produce innumerable blooms and also support a varied assortment of other aquatic plants. A larger pool of concrete will offer almost limitless possibilities in water garden making, according to its size.

The charm of a crystal pool, reflecting a bit of blue sky, and dotted with floating lily pads and beautiful blossoms in many hues, appeals to everyone and makes a water garden a center of interest in any yard and a fascinating addition to any garden.

Cultivated water lilies have been developed to a high degree of perfection just as roses, dahlias, iris and gladiolus have been, and perhaps have more distinctive types and greater color range than do most garden flowers.

Plant breeders have gathered water lilies from their native haunts in all parts of the world and, by crossing and re-crossing, produced wonderful hybrids in such variety of type and color that the pool owner finds it a problem to select the choice few for his garden pool.

It is commonly supposed that a large pond, natural or artificial, is necessary to grow water lilies and other aquatic plants, and that their culture is complicated and expensive; however, a water garden is not only a practical possibility but a real opportunity for the home gardener, and charming effects can be produced in a little space and at slight expense.

It is our purpose in the pages of this catalogue to show you how to have a successful water garden of your own so you can enjoy the delights of growing these gorgeous flowers in all their glorious colors in your own garden. We believe you will find all of your questions answered in our detailed instructions and helpful suggestions, so read our directions carefully before writing us.

Our complete pool collections which are designed to solve your problem of making selections, deserve your careful consideration. They make it easy to order.

CULTURAL DIRECTIONS

SOIL. A good soil for water lilies is made by using any good garden soil, preferably having a rather heavy clay texture, mixed four parts with one part of thoroughly rotted cow manure. Our Ideal Water Garden Plant Food prepared for this purpose produces excellent results and is safe and sure.

Swamp muck is unsuited for use, being deficient in plant food and often containing partly decomposed matter that fouls the water. Fresh manure or excessive fertilization causes the water in a pool to become green and scummy.

Hardy water lilies should be given new soil every three years.

TIME TO PLANT. Hardy lilies may be planted any time after the middle of April until September, and tropical lilies may be planted when the temperature averages seventy degrees or about June first.

Hardy water lilies should be given new soil every three years.

Water lilies come into flower early in the season and bloom until frost.

PLANTING. A tub should be half filled with soil before planting and boxes, containing at least a bushel of soil for each lily plant should be provided in concrete pools for water lilies and aquatic plants to grow in. An inch or more of sand or fine gravel may be spread over the soil to prevent fouling of the water. Plants should be set in the soil so that the crown, from which the leaves grow, is level with the surface of the sand. The crown of a plant should never be buried. Plant water lilies 3 to 5 feet apart.

Six or eight inches of water over the crown of the plants is best, however, the water should be kept shallow over new water lily plants until they have started to grow. Tropical water lilies started too early, or planted in deep or shaded water, sometimes cease to grow and become dormant until started into activity again by more warmth.

Full sunlight on the pool is very desirable for producing bloom.

Running water is neither necessary nor desirable and may retard the development of water lilies by keeping the temperature too low.

New concrete pools should be soaked for two weeks, and the water changed several times before fish or plants are introduced.

WINTER CARE. Water should be removed from tub gardens and the tubs filled with leaves and covered with boards, but concrete pools are best left full of water and covered with boards and leaves or straw. Hardy water lilies will winter in the pool if the water does not freeze deeply, but tropical lilies are best considered as annuals and purchased new each year. Hardy water lilies growing in boxes may be taken into a cool basement until spring, but they must not be allowed to dry out.

INSECT PESTS. Goldfish or tropical fishes are a source of interest both for their beautiful colors and interesting habits, and are essential in any pool to destroy insect larvae. Insects that sometimes infest the leaves of plants may be washed off with a hose so that the fish can destroy them.

Snails are of value in keeping a pool clear and clean by consuming the green scum-like growth of algae that accumulates in the water. They also act as scavengers and devour the decayed matter.

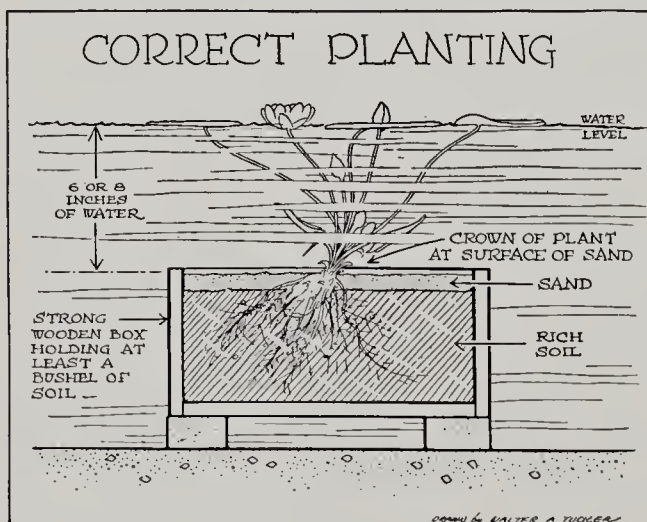
CARE OF FISH

A little care in handling fish after arrival and a few precautions in placing them in a pool or aquarium will insure their being healthy and active. Rough handling in shipment usually weakens fish and sometimes injures them, so that they are susceptible to the attack of unfriendly organisms that may be in the new water. Goldfish placed in an antiseptic bath of

potassium permanganate, 1 grain to a gallon and a half of water, for twenty minutes, will be greatly benefitted. Tropical fishes may be kept for a day or two in a five gallon tank in which an Ideal Chemical Shell has been placed, before being introduced into their new quarters. In no case should fish be subjected to any change of temperature in being transferred from one container to another. Snails, turtles and salamanders do not require treatment, but may be placed immediately in their new home.

All fish in pools or aquariums may be fed daily if no more food is given at one time than is consumed in a few minutes. Ideal Balanced Fish Food is a complete food for pool and aquarium fishes but frequent feedings of Ideal Sun Dried Shrimp are beneficial.

Submerged oxygenating plants should be provided in pools or aquariums to supply oxygen and afford food and shelter for the fish.



BUILD YOUR OWN GARDEN POOL

*It Is Easy If You Follow
These Instructions*

THE charm of a water garden lies not only in the beauty of the pool itself, the cool green foliage or the myriads of flowers, but in the part it plays as a feature in landscape design. It can be made to fit into any scheme of planting and add a distinctive touch to any garden. Combined with a rock garden and grouped with appropriate shrubs and perennials in a naturalistic arrangement, or as a unit in a formal garden, it makes an ideal central point of interest.

Everyone has his own idea about the type of pool he desires, whether it is formal or naturalistic in design, but it is essential that the necessary features for plant culture should be provided in any plan.

Formal pools of geometric shape with rims of stone or concrete rising well above the sod and water are suitable in large formal gardens along with statuary and ornamental fountains, but in most small gardens the naturalistic pond of irregular shape is more effective and satisfactory. An artificial pool with edges screened by rocks and plants so that it appears natural is much more pleasing than a pool that is quite obviously a show of masonry rather than a setting for various plants.

Pool construction for a water garden on a larger scale than a tub garden involves the use of some material to make it water-tight and durable. Concrete is the ideal material to use, and the average home gardener can use it successfully in building his own pool if a few important specifications are carefully followed. A saucer-shaped pool made without forms is best and the walls should be from four to six inches thick and well reinforced with iron rods and wire netting. Wire fencing and old gas pipe do well for this purpose. Thoroughly mixed concrete, one part cement, two parts sand and three parts half-inch or three-quarter-inch crushed stone or gravel well puddled, will make a substantial pool, and is best applied with a shovel and smoothed with a trowel or wooden float. A thin skim coat of one part cement and one part fine sand will insure a water-tight job.

Once completed, the concrete must set slowly and should be protected from the sun while drying. After setting, the



You may enjoy the fascinating beauty of water lilies.

new pool should be thoroughly soaked for two weeks and the water changed several times to remove alkali that might injure the plants or fish.

A depth of 20 inches should be allowed in the pool proper, to provide a foot of soil and eight inches of water for water lilies.

A ledge one foot deep allowing for six inches of soil and six inches of water will be ideal for shallow water plants, and a six-inch edge covered with soil to the water level will accommodate bog plants so their crowns are exposed to light and air.

A water inlet is not necessary for small pools but is convenient in large pools.

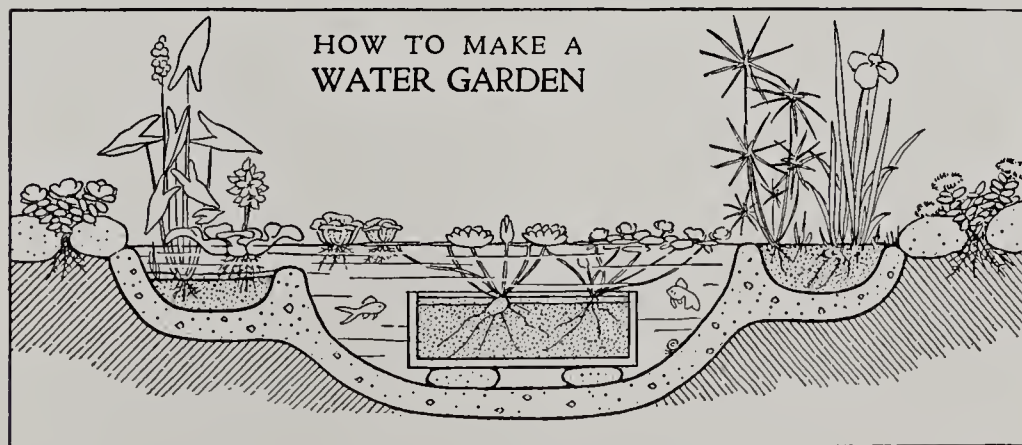
A pool containing plenty of plant life requires no change of water and all that is necessary to add to make up for the loss from evaporation, can be supplied from the garden hose.

A drain is not necessary as a well managed pool does not require draining oftener than once a year, if then. Ordinarily a garden hose can be used to siphon the water into a basement drain.

A water garden constructed according to the accompanying plan embodies the essential requirements for the cultivation of water lilies and other aquatic plants useful in the garden pool and is the best type of pool for the home gardener to build. The plan may be altered in shape and extent and still retain the essential features for plant culture.

BRIEFLY

Water gardening wisdom may be summarized in a few words: Build your pool where it gets plenty of sunlight. Soak a new concrete pool thoroughly and change the water several times over a period of several weeks to remove free alkali. Buy plants and fish of the very best quality. Use at least a bushel of rich soil for each water lily plant. Use manure cautiously in small pools to avoid turning the water green and scummy; commercial fertilizer is safer if you follow directions. Plant water lilies so the crowns are 6 or 8 inches under water; shallow water plants in 2 to 6 inches of water, and marsh plants in wet soil where their crowns are exposed to the light and air. Oxygenating plants should be grown entirely submerged. Start tropical water lilies after the weather is settled and warm—they will do much better than if started too early. Keep your pool well filled but avoid a continuous flow of running water.



Read our Instructions and Suggestions before writing us your questions.

START with a TUB WATER GARDEN

Enjoy a Minature Pool

A complete miniature water garden in a space no larger than four by four feet may be had in a tub garden, with any one of several beautiful colorful water lilies and a variety of other aquatics to delight you all summer.

The tub garden collections which we offer will give you the pleasure of a charming garden pool on a small scale and make an easy start for a larger and finer pool later. Of course your tub garden may comprise several tubs if you like.

A Complete WATER GARDEN for \$5

We will send you a large wooden tub, a fine water lily plant, an interesting assortment of aquatics and marginal plants, and a pair of scavengers, enough to make a surprisingly attractive miniature lily pool, all for \$5.00, F. O. B. at Columbus.

This collection includes:

- 1 White Cedar Water Lily Tub, 2 feet in diameter and 1 foot deep. Reinforced with galvanized hoops.
- 1 Water Lily, your choice of white, pink, yellow or blue.
- 3 Aquatic Plants, including floating plants, shallow water plants and oxygenating plants.
- 4 Marginal Plants, for background effects.
- 1 Pair of Japanese Snails.

In ordering specify Collection No. T1 and be sure to give your choice of color for your water lily. This collection can be furnished without the water lily tub for \$3.00.

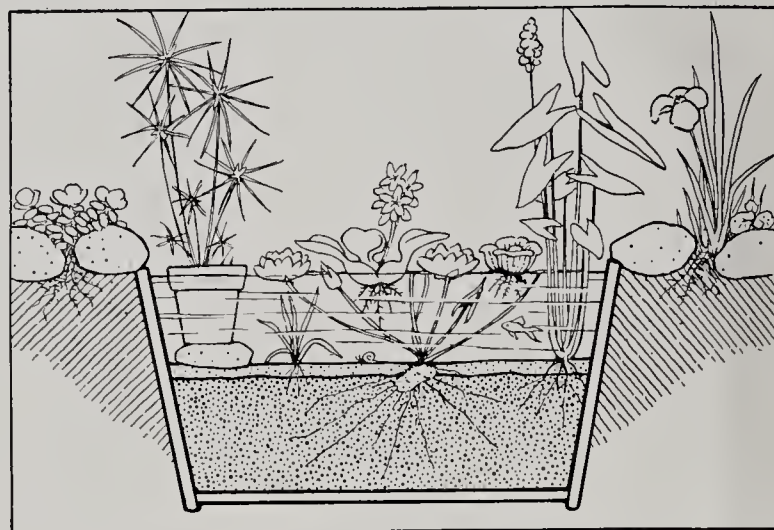
OTHER TUB COLLECTIONS

If you prefer one of the finer water lilies with your tub garden collection you may choose one of the varieties listed below, which will be sent with the tub, aquatic plants, marginal plants and snails as listed in the No. T1 collection.

No. T4—with choice of Laydeker Red, Patricia or Comanche for \$6.00.

No. T5—with Paul Hariot for \$6.50.

No. T6—with Gloriosa for \$7.00.



FISH for the TUB GARDEN

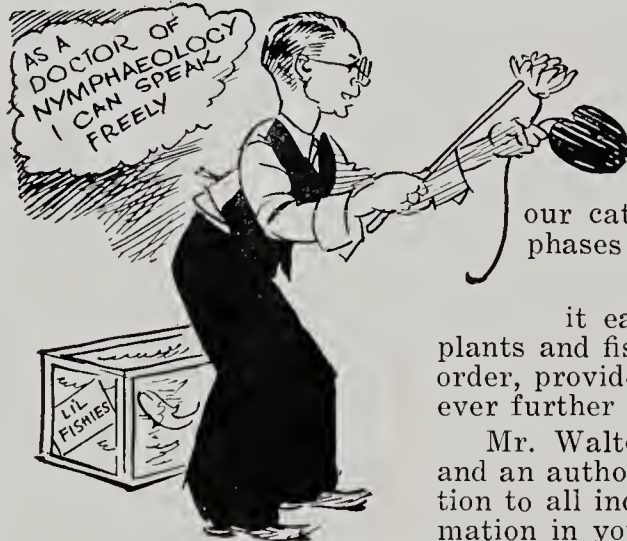
A collection of fish and scavengers for the tub garden, including six small goldfish, ramshorn snails and other scavengers, will be sent, with shipping paid for \$2.00. (Collection No. TF1.)

ADDITIONAL TUBS

We can furnish extra tubs if you need them. They are made of white cedar, strongly built, and bound with galvanized hoops, so that they will last a long time. They are ideal to use in pools for holding the soil in which to plant water lilies and aquatic plants. \$2.00 each.

COMPLETE COLLECTIONS

Convenient assortments of water lilies, aquatic plants, fish and scavengers for larger pools, together with fish food and fertilizer—everything for the water garden—are listed in page 11.



WE ARE AT YOUR SERVICE

Let us help you

Your success in making a water garden or establishing an aquarium is of great importance to us, and it is our purpose to give you all the assistance we can. We have made our catalogue a reliable source of information concerning the various phases of water gardening and aquarium management.

Our convenient and practical collections are designed to make it easy for you to select attractive and harmonious combinations of plants and fishes to suit your needs. Our cultural leaflets, included with each order, provide complete instructions answering your questions, however, whenever further information is needed, we are glad to have you write to us.

Mr. Walter A. Tucker, an experienced aquarist and water lily specialist, and an authority on the various forms of aquatic life, will give personal attention to all inquiries. State your questions briefly and clearly, giving all information in your first letter, so we can give you a prompt reply.

TERMS AND INSTRUCTIONS FOR ORDERING

Our terms are strictly cash. We accept orders only when accompanied by funds sufficient to cover the price of the goods and 50 cents extra for the shipping paid when fish are included.

We ship by Express, Charges Collect, unless funds are included to cover cost of parcel post and insurance. We do not prepay express charges on any shipments. Fish cannot be sent by mail.

We guarantee safe arrival of express shipments when permitted to use our judgment as to proper time for shipping. We will replace stock found defective, only when goods are inspected upon arrival in presence of local express agent, and a Bad-Order Report, signed by the agent, is forwarded to us at once. We do not prepay express charges on replacements.

Owing to conditions over which we have no control, we assume no responsibility whatever for results after goods are received in good order.

Tropical fish are shipped with safety only from June 1 to October 1, but goldfish, aquarium plants and supplies may be shipped at any time. Hardy water lilies are ready to ship about May 1, and tropical lilies when the temperature averages 70 degrees, or after the first week in June.

Place your order early and we will ship when it is time to plant. The supply of some varieties of water lilies is limited and we are unable to furnish them for late orders. In such cases we substitute similar varieties of equal or greater value unless otherwise instructed.

Write us if you need help in planning your water garden.

TROPICAL WATER LILIES

The Loveliest of Garden Flowers

Because of their immense size, glorious colors, and exquisite fragrance, tropical water lilies are perhaps the most desirable of garden flowers. Considering their profusion of bloom over a remarkably long season, and their ease of culture, they are most economical and satisfactory for the home gardener.

NIGHT BLOOMING LILIES Of Mystic Charm

Unfolding their blossoms in deepening twilight to remain open all night and well into the next day, these lilies may be enjoyed by those people who are unable to be in the garden during the daytime.

JUNO. This magnificent night blooming water lily has immense pure white flowers, 8 to 12 inches across, that stand on stout stems well above the water. The broad, heavy petals open out flat, revealing the saffron yellow stamens in the center of the flower. The leaves are large, deep glossy green in color, and finely dentate. The plant is very free flowering and vigorous in growth, requiring plenty of space. **\$2.50.**



Juno.



August Koch.

BISSETI. Cup-shaped flowers of rose-pink color are freely produced by this superb variety. The stamens are deep orange colored and the leaves are bronzy green. **\$1.50.**

OMARANA. Large flowers of light rosy red, with a faint tinge of white down the center of the petals. Stamens are deep orange; leaves are deep bronzy green, with dentate margins. Very popular. **\$1.50**

EMILY GRANT HUTCHINGS. New Amaranth-pink variety which produces exceedingly large flowers. **\$3.50.**

H. C. HAARSTICK. Large rose colored flowers. A new variety. **\$3.50.**

DEVONSHIRE. Bright rosy red. **\$1.50.**

MRS. GEORGE C. HITCHCOCK. Dark rose-pink seedling of Omarana. New variety. **\$3.50.**

GEORGE HUSTER. Brilliant crimson flowers of large size. The leaves are bronzy red and deeply dentate. **\$2.00.**

FRANK TRELEASE. A dark crimson flowered variety, with long narrow petals and mahogany stamens. Very striking. **\$2.00.**

STURTEVANT. Bright red night-blooming variety, producing many large flowers. At its best with plenty of space and warmth. **\$2.00.**

DAY BLOOMING LILIES In the Most Gorgeous Colors

There is great diversity in the types of day blooming water lilies, some having broad rounded petals and cup-shaped flowers, while others have pointed petals and starry blossoms. Some varieties are leaf propagators, producing new young plants on the old leaves. All may be dwarfed for use in tub gardens or small pools.

MRS. EDWARDS WHITAKER. One of the largest flowered water lilies, sometimes producing blossoms over a foot across. Flowers are lavender-blue and of a rich satin finish, becoming paler with age. They are delightfully fragrant, and remain open longer than most day bloomers. Very free flowering and readily adaptable to large pools or tubs. **\$2.50**

MARMARATA. A variation of Mrs. Edwards Whitaker, in which the flowers are identical in color, but more freely produced. The leaves are mottled and streaked with brown. **\$2.50.**

AUGUST KOCH. A strong growing variety of the viviparous type, which produces new young plants in the center of the old leaves. The flowers are very freely produced and a pale wisteria violet in color, with purplish lilac sepals. They are very fragrant. The leaves are clear dark green, the under side having a lilac shading. Makes a splendid show in any sized pool or tub. **\$2.50.**

MRS. ROBERT SAWYER. This exquisite deep pink day flowering water lily of the viviparous type, is a new variety originated by Mr. Robert V. Sawyer. The plant is vigorous in growth and gives large full-petaled flowers that are wonderfully fragrant. **\$2.50.**

MRS. GEORGE H. PRING. Produces immense pure white flowers. Similar in type to Mrs. Edwards Whitaker, except that the petals are more pointed at the tip and broader at the base. **\$2.00.**

PANAMA-PACIFIC. A viviparous plant producing fragrant flowers that open a rich, rosy red which deepens to a distinct reddish purple. Free flowering, and fine for large or small pools. **\$2.50.**

GENERAL PERSHING. This hybrid water lily of the Whitaker type is bright pink, delightfully fragrant, and of fine form. **\$3.50.**

JANICE. Another viviparous variety that is pure white and similar in type to its parent, Mrs. Sawyer. Very distinctive. **\$2.50.**

PENNSYLVANIA (Blue Beauty). Large deep blue flowers freely produced on strong growing plants. The stamens are yellow and the sepals are marked with purple lines and dots. Leaves are slightly speckled with brown. A favorite old variety equally desirable in a pool or tub. **\$2.50.**

DAUBEN. A well known viviparous water lily of small leaf spread, that produces small light blue flowers in profusion. Excellent for tubs, and may be grown in a well lighted aquarium. **\$1.00.**

MRS. WOODROW WILSON. Lavender-blue flowers. Viviparous plant of moderate growth. **\$2.00.**

PATRICIA. A crimson variety of the viviparous type. Flowers freely produced on a plant of moderate growth. Splendid variety for tubs or small pools. **\$2.50.**

JUPITER. The Zanzibar purple water lily. **\$2.00.**

ZANZIBAR BLUE. Fine pure blue, **\$1.50.**

ZANZIBAR ROSE. Deep rose Pink. **\$1.50.**

MRS. C. W. WARD. Rose-pink of Gracilis type. **\$2.00.**

GRACILIS RED. Rich claret red, star-shaped. **\$2.50.**

HENRY SHAW. An attractive campanula-blue. **\$1.50.**

Our Collections of Water Lilies make it easy to select suitable varieties.

The Very Choicest Varieties of HARDY WATER LILIES



Gonnere

GONNERE. Another superb novelty of French introduction. This finest of white water lilies is most distinctive in producing exceedingly double flowers of enormous size. The showy blossoms of dazzling whiteness are broadly cup-shaped and composed of many wide waxy petals surrounding a mass of golden yellow stamens. The vivid green leaves grow in compact form making an ideal plant. \$3.00.

ATTRACTION. A remarkable variety that produces immense blooms 8 inches across, opening a garnet red, the petals tipped with rosy white, and the sepals almost white. The flowers change to deep rich red, and the sepals become streaked with garnet. Very free flowering. \$4.50.

GLORIOSA. A superb variety of small leaf spread, that produces magnificent flowers of a deep carmine-rose color, becoming deep red with age. Exceedingly free in flower, and a continuous bloomer that can be relied upon to make a wonderful showing. \$3.50.

CHROMATELLA. The lovely canary yellow flowers of this variety, with their bright yellow stamens; and the luxuriant deep green leaves beautifully mottled with brown make it easily the most charming of hardy water lilies. Of vigorous compact growth, very free in flower and thoroughly hardy, it is justly popular. \$1.50.

COMANCHE. The best of all the changeable types; flowers opening a rich apricot color that deepens with age to a warm orange-red. The brilliant blossoms in glowing sunset colors are very striking in contrast with the luxuriant green foliage, and they are unique in that they usually stand several inches above the water. The plant is a free and continuous bloomer. \$2.50.

MARLIAC ROSE. One of the choicest water lilies. Pure rose pink flowers of large size are freely produced on plants of strong vigorous growth. The leaves are purplish red in the young state changing to deep green. Excellent variety for cut flowers. \$2.00.

ROSE AREY. One of the finest lilies of the Odorata type. The flowers are of large size, sometimes reaching 8 inches in diameter, deep cerise pink in color, and very sweet scented. The petals are pointed and slightly curled, giving the flower a star-like appearance. A vigorous plant at its best with plenty of space. \$2.00.

Shades of red, yellow, orange, white and pink are to be found in the large group of hardy water lilies so indispensable in the complete water garden. Lovely blossoms that usually float on the surface of the water are freely produced over a long season.

Hardy water lilies are perennial in habit and accustomed to dying down and remaining dormant during the winter months. Our water lilies are grown in Ohio and are vigorous plants thoroughly hardened to long, cold winters.

The plants are best left in the pool for the winter with the roots and crowns well below the ice that forms, so that they are protected from actual freezing. In natural ponds no additional protection is necessary but concrete pools should be covered with boards and leaves or straw so the water will not freeze deeply.

SUNRISE. This magnificent hardy water lily, of brilliant sunrise yellow is unusual in form and size as well as color, and has attained well merited popularity. The sulphur yellow flowers of this sensational variety are of enormous size, from 7 to 9 inches across, and produced over an unusually long season. The petals are curiously crinkled and stand at various angles giving the flower a chrysanthemum-like appearance. A vigorous plant suitable for deep water. \$3.50.

PAUL HARIOT. Has cup-shaped blossoms that open clear yellow and deepen on successive days to orange-pink, and finally almost orange-red. Flowers of different ages on a plant present a variety of shades. Of compact growth and very free flowering. \$3.00.

MARLIAC WHITE. This is one of the most popular hardy varieties. It gives snowy white flowers with broad waxy petals and sepals delicately flushed with pink. The stamens are light yellow. A vigorous plant and continuous bloomer. Very desirable. \$1.50.

AURORA. A most desirable water lily for tubs and small pools, compact in growth and very free flowering. It has flowers of a soft rosy yellow that become suffused with orange-red as they get older. The stamens are orange-red and the leaves are mottled with brownish red. \$1.50.

MORNING GLORY. Enormous shell-pink flowers produced in great abundance. Vigorous plant requiring plenty of space. \$2.50.

LAYDEKER CARMINE. This is a free flowering variety that produces flowers of a carmine-rose color, darker toward the center. The stamens are orange-red and the leaves are prettily spotted with deep red. Splendid for small pools or tubs. \$2.00.



Sunrise.

MARLIAC FLESH. Flowers of delicate shell-pink, full petaled and of exquisite form, make this a popular variety, with those who admire the lighter shades. \$1.50.

VESUVE. Dark red full-petaled flowers. Leaves spotted with maroon. The plant is very free flowering. \$4.00.

JAMES BRYDON. Choice variety with full-petaled flowers, broadly cup-shaped and rosy crimson in color. \$3.00.

PINK OPAL. A deep rich pink variety of the Odorata type. The buds are almost round and open into a graceful cup-shaped flower that is quite fragrant. A splendid water lily for small pools or tubs. \$1.50.

LAYDEKER RED. (Laydekeri fulgens). This is a free flowering bright red water lily of medium size. A choice variety for pools of moderate size or tub gardens. \$2.50.

ESCARBOUCLE. A bright uniform vermilion red, deepening to crimson, with garnet stamens. Most brilliant of all red water lilies. \$3.50.

Order early while we have plenty of stock, we will ship when it is time to plant.

W. B. SHAW. Large rich rose-pink flowers on strong growing plants of the Odorata type. Exceedingly fragrant. \$1.50.

LAYDEKER LILAC. (Laydekeri lilacea). One of the most dainty of the smaller type water lilies. Flowers are an unusual rosy lilac. \$2.50.

SOLFATARE. This charming flower is similar in type to Paul Hariot and opens a rich luminous yellow that gradually becomes suffused with a rosy blush until it is a deep apricot. \$2.00.

CONQUEROR. A bright red of large size. A showy plant similar to Attraction but lighter in color. \$5.00.

EUGENIA de LAND. A popular variety of the Odorata type. The flowers are large, rose-pink in color and fragrant. \$1.50

SOMPTUOSA. A large flower, quite double, and of satiny texture. A rosy pink deeper to the center of the flower. \$3.50.

SPLENDIDA. Deep pink petals shaded white and streaked with carmine give this flower a color described as strawberry pink. A choice variety. \$5.00.

GLADSTONE. A strong growing variety that should be given plenty of space. The flowers are very large and pure white. \$2.00.

CHRYSANTHA. A small growing water lily of the changeable type, opening a creamy yellow that deepens to orange-vermilion. \$2.50.

ELLISIANA. A fine variety of medium growth that produces bright vermillion-red flowers in abundance. \$3.50.

GLOIRE du TEMPLE-SUR-LOT. This recent Marliac hybrid has large blush pink blossoms with yellow centers, becoming lighter with age. The flowers are very double much like Gonnere, with long narrow petals that are wrinkled like those of a cactus dahlia. Fragrant. \$5.00.

RENE GERARD. Large spectacular flowers of distinctive form. The petals are deep old rose and the stamens intense yellow. \$5.00.

NEPTUNE. The petals of this flower are deep pink, flushed with red at the base. The stamens are garnet red. \$3.50.



Solfatare, a new hardy water lily.

MASANIELLO. A splendid growing variety producing many cup-shaped flowers of good size. The color is rose pink dotted with carmine. \$2.50.

JAMES HUDSON. Large tulip-shaped flower with sharp petals. A red water lily of French introduction. \$10.00.

LUSTROUS. An unusual deep pink variety, with many petals, and perfectly cup-shaped. Plant of strong compact growth. \$5.00.

YELLOW PYGMY. One of the smallest dwarf water lilies; the flowers measuring one to two inches across. The leaves are small and prettily mottled with dark brown. Ideal for tub culture. \$1.00.

HOPATCONG. (Odorata gigantea). Large pure white water lily suitable for deeper water than usual and excellent for naturalizing. A rampant grower requiring plenty of space for development. 50c; \$5.00 per doz.

CDORATA MINOR. Pygmy water lily of the Odorata group for tubs and small pools. White flowers. \$1.00.

NELUMBIUMS OR LOTUS

MOST classic of garden flowers is the Lotus or Nelumbium, one of the most spectacular of cultivated plants, with its immense and stately flowers and enormous shield-like leaves, often more than twenty inches across. Although varieties of the Lotus are found growing wild in the Eastern Tropics, India and China as well as the United States, the Lotus is most frequently associated with the early history of Egypt, where it was introduced from India.

Large and stately flowers are borne high above the water and the enormous concave leaves are supported well over the water on long stout stems. The plants are strong growing, requiring plenty of soil, and should not be planted in the same boxes with water lilies or they will crowd the lilies out. Best adapted to pools of fair size.

Nelumbiums are thoroughly hardy, but the tubers should not be transplanted until the weather is warm as tubers planted in cold water often fail to grow. The banana-like tubers should be planted in a horizontal position about two inches below the surface of the soil with the growing end just below the surface. Care should be taken not to injure the growing tips of the tubers in planting. The water should be from two to 12 inches deep. Potted plants set out when the weather is warm, or after the middle of June are most satisfactory.

AMERICAN YELLOW LOTUS. The Water Chinquapin with flowers of creamy yellow. \$2.00.

HINDU PINK LOTUS. The sacred lotus of the Egyptians, and a most satisfactory variety. Flowers are pink. \$2.00

JAPANESE WHITE LOTUS. Snowy white flowers of large size. \$2.00.

CHINESE RED LOTUS. The flowers are very double and rosy-carmine in color. \$3.50.

NOTE: We can furnish potted plants for \$1.00 extra.

LOTUS TRIO—\$5.00

(Collection No. L3)

One each of the American, Egyptian and Japanese Lotus. A pleasing combination.

We send a folder giving complete Planting Instructions with each order.

Other Plants to Complete the Water Garden



MUCH of the charm of a water garden depends upon the naturalness of the setting and nothing contributes so much to making a lily pool harmonize with its surroundings as a suitable planting of various aquatic and moisture-loving plants.

The natural beauty of water lilies is accentuated and their attractiveness increased by the use of plants that grow naturally where water lilies grow. Low trailing plants and tall, erect-growing plants that thrive in shallow water or moist soil in a pool soften its outlines and make pleasing contrasts with the floating leaves of the water lilies, besides making delightful reflections on the water.

FLOATING PLANTS

Aquatics that will grow and bloom merely floating on the surface of the water, but they prefer to drift into shallow water where their roots can anchor in soil.

DUCK WEED. (*Lemna minor*) Series of tiny green leaves floating on the surface. Fine for fish. Portion 25c.

SALVINIA. (*Salvinia Braziliensis*.) Dainty velvety green leaves that spread over the surface. Portion 25c.

SHELL FLOWER. (*Pistia stratiotes*) A beautiful rosette of velvety green leaves that grows best in a shady spot. 75c for 3; \$2.00 per doz.

WATER HYACINTH. (*Eichornia crassipes major*). An unusual and interesting plant with shiny dark green leaves, the stems of which are expanded into bulb-like air chambers, that keep the plant afloat. The dainty orchid-like flowers are borne on spikes and are produced freely all summer if the plants get plenty of sunlight and the roots trail in soil. Water Hyacinth roots are ideal for receiving the spawn of goldfish. 50c for 3; \$1.50 per doz.

WATER SNOWFLAKE. (*Nymphoides indicum*). Round floating leaves and dainty white fringed flowers that look like giant snowflakes. Furnished as floating leaf with plant attached which soon sends down roots and forms new leaves. 75c for 3; \$2.00 per doz.

SHALLOW WATER PLANTS

Plants that may be grown in from two to eight inches of water. They may be planted in boxes with water lilies, in separate boxes of soil, or in shallow places constructed around the rim of a pool. Ideal for center pieces or corner ornaments.

BOGBEAN. (*Menyanthes trifoliata*.) Fragrant white flowers on stout stems. Has creeping root stocks. 50c for 3; \$1.50 per doz.

CAT-TAIL. (*Typha latifolia*). A well known and favorite aquatic for background planting. Especially effective in pools of large size. Hardy. 50c for 3; \$1.50 per doz.

GIANT ARROWHEAD. (*Sagittaria sagittifolia*). A plant with unusual arrow-shaped leaves standing a foot or more above the water. White flowers are freely produced on tall spikes. Hardy. 75c for 3; \$2.00 per doz.

PICKEREL RUSH. (*Pontederia cordata*.) Heart-shaped leaves and blue flowers. 75c for 3; \$2.00 per doz.

WATER POPPY. (*Hydrocleis nymphoides*.) Floating leaves and yellow flowers in great profusion. 50c for 3.

DOUBLE FLOWERING ARROWHEAD. (*Sagittaria japonica florepleno*). Similar to giant arrowhead except that the flowers are quite double. \$1.00 each.

FLOATING HEART. (*Nymphoides peltatum*). Small floating leaves like a water lily and brilliant yellow flowers freely produced. Hardy. 50c for 3; \$1.50 per doz.

FLOWERING RUSH. (*Butomus umbellata*). A hardy plant with leaves in graceful clumps and attractive pink flowers on round stems. \$1.00 for 3; \$2.50 per doz.

LIZARD'S TAIL. (*Saururus cernuus*). A tall growing aquatic with attractive heart-shaped leaves and fragrant white flowers borne on a dense terminal spike that curves gracefully over at the end. A fine plant for a background in massed plantings and valuable in small pools because it is not too rampant in growth. Hardy. 75c for 3; \$2.00 per doz.

PRIMROSE CREEPER. (*Jussiaea repens*). Trailing vine that grows partially submerged and produces a profusion of bright yellow flowers. Rapidly growing plant thriving in sun or shade. Is not hardy. 50c for 3; \$1.50 per doz.

DWARF SWEET FLAG. (*Acorus Gramineus* Var.) A smaller growing sweet flag. \$1.00 for 3; \$2.50 per doz.

SWEET FLAG. (*Acorus calamus*). The well-known native Sweet Flag. 50c for 3; \$1.50 per doz.

FOUR-LEAF WATER CLOVER. (*Marsilia Quadrifolia*.) Makes a luxuriant growth. 50c for 3; \$1.50 per doz.

VARIEGATED SWEET FLAG. (*Acorus calamus* var.). An excellent plant for planting in groups. Has saber-like leaves attractively striped green and ivory. Hardy. \$1.00 for 3; \$2.50 per doz.

PARROT FEATHER. (*Myriophyllum proserpinacoides*). A rapidly growing trailing plant with fine feathery leaves; much appreciated by baby fish, baby turtles and water newts in a lily pool as a hiding place. Grows anywhere in water or wet soil and should be pinched back occasionally to make dense growth. Hardy. 50c for 3; \$1.50 per doz.

WATER ARUM. (*Peltandra virginica*). A hardy aquatic with graceful, spearlike leaves and calla lily flowers. \$1.00 for 3; \$2.50 per doz.

WATER PLANTAIN. (*Alisma plantago-aquatica*). Heart-shaped leaves a foot above the water. Numerous white flowers on tall branching spikes. Effective in corners or as a border plant. Hardy. 75c for 3; \$2.00 per doz.

WATER CALLA. (*Calla Palustris*). Heart-shaped leaves standing above the water. White flowers like calla lily. Hardy. 50c for 3; \$1.50 per doz.

MARSH OR BOG PLANTS

Rich wet loam suits these plants, but the crowns and stems must be exposed to the air and sunlight. A box of soil, a ledge, or flower pots placed in the water so that the surface of the soil comes slightly above the water level will accommodate marsh plants.

FORGET-ME-NOT. (*Myosotis palustris*). Low growing plant with dark green foliage and many small clear blue flowers produced in clusters. An excellent plant for moist shady places. Hardy. \$1.00 for 3; \$2.50 per doz.

YELLOW WATER IRIS. (*Iris pseudacorus*). Fine plant for background or corners where the tall sword-like leaves make graceful reflections on the water. Has large yellow flowers of the Japanese Iris type. Hardy. \$1.00 for 3; \$2.50 per doz.

BLUE WATER IRIS. (*Iris versicolor*). Very similar to the Yellow Water Iris except that the flowers are bright blue. Very effective when planted with the yellow variety. Hardy. \$1.00 for 3; \$2.50 per doz.

MARSH MARIGOLD. (*Caltha palustris*). Very showy plant in early spring producing many bright green leaves surmounted by a mass of brilliant yellow flowers. Thrives in sun or shade. Plants set out in the summer make little showing until the following spring when they are the first to appear. \$1.00 for 3; \$2.50 per doz.

CARDINAL FLOWER. (*Lobelia cardinalis*). Rich, fiery cardinal flowers on spikes produced by strong growing plants. Hardy. \$1.00 for 3; \$2.50 per doz.

IMPERIAL TARO. (*Colocasia antiquorum illustris*). Leaves blotched with dark brown and violet black. \$1.00.

BLUE TARO. (*Colocasia multiflora*). Rich blue-green leaves on dark purple stems. 75c.

GREEN TARO. Similar to the Blue Taro except that it is entirely green. Excellent as centerpiece. 50c each.

PAPYRUS. (*Cyperus papyrus*) The Egyptian paper plant has tufts of long thread-like leaves at the end of tall triangular stalks. Ideal center plants. \$1.00 for 3; \$2.50 per doz.

SPIRAL PALM. Similar to the Umbrella Palm. Greenish white flowers produced in umbels. \$1.00 for 3; \$2.50 per doz.

UMBRELLA PALM. (*Cyperus alternifolius*). The familiar umbrella palm. Very effective in pools and an excellent house plant in winter if the pot is kept in a saucer of water. \$1.00 for 3; \$2.50 per doz.

We have complete water garden collections for pools of every size.

SUBMERGED OR OXYGENATING PLANTS

Plants for the pool or aquarium that will grow entirely under water and may be rooted in sand or soil. They are of inestimable value in purifying the water, keeping it clear and wholesome. They supply the fish with oxygen and afford ideal protection for baby fish. Oxygenating plants are indispensable for balancing an indoor aquarium so that it becomes unnecessary to change the water.

ANACHARIS. (*Elodea Canadensis*.) A luxuriant plant of rapid growth, 50c for 3 bunches; \$1.50 per doz.

SAGITTARIA SINENSIS. Broad dark green leaves. 50c for 3; \$1.50 per doz.

VALLISNERIA SPIRALIS. Italian variety. Long ribbon-like leaves. 75c per doz.

CABOMBA. (*Cabomba caroliniana*.) Fan shaped leaves on red or green stems. 50c for 3 bunches. \$1.50 per dozen.

MYRIOPHYLLUM. (*Myriophyllum verticillatum*.) Lacy green leaves growing in plumes. Fine for spawning. 50c for 3 bunches; \$1.50 per doz.

LUDWIGIA MULERTII. Leaves green above and scarlet beneath. 50c for 3 bunches. \$1.50 per dozen.

AQUATIC PLANT COLLECTIONS

Much of the beauty of a water garden depends upon the choice of appropriate aquatic plants and moisture-loving plants, in addition to the water lilies, to complete the pleasing natural effect of a luxuriant garden pool.

The selection of suitable plants in attractive combinations for your pool is greatly simplified by the following collections which provide assortments of plants to suit your particular needs.

Each variety is labeled and a cultural leaflet enclosed with each shipment gives correct instructions for planting.

Small Pool Collection, \$3.00.

(Collection No. A1)

The selection of 20 plants in 12 or more varieties suitable for a pool 4x6 feet. It includes 2 floating plants, 8 shallow water plants, 4 marsh plants and 6 oxygenating plants.

General Pool Collection, \$5.00.

(Collection No. A2)

A group of plants designed to make a splendid showing in a medium-sized pool, 7x9 or larger. Thirty-two plants in 16 or more varieties. It includes 4 floating plants, 12 shallow water plants, 8 marsh plants and 8 oxygenating plants.



MARGINAL PLANTS

APPROPRIATE plants for creating naturalistic marginal and background effects around a pool are important in adapting a water garden to its surroundings. Plants that are suited for such use include perennials that prefer moist soil and rock plants that thrive under adverse conditions and may be planted in crevices between the stones around a pool.

ROCK CRESS. (*Arabis alpina*.) One of the most common of rock plants. Pure white flowers are produced in dense masses. Requires a sunny position. \$1.00 for 3; \$2.50 per doz.

MAIDEN PINK. (*Dianthus deltoides*.) A beautiful little plant with narrow leaves easily grown among rocks in a dry sunny spot. Small crimson flowers are produced in profusion during June and July. \$1.00 for 3; \$2.50 per doz.

BLUE PLANTAIN LILY. (*Funkia coerulea lanceolata*.) Attractive plant with broad green leaves and blue flowers from July to August. Succeeds equally well in sun or shade. \$1.00 for 3; \$2.50 per doz.

VARIEGATED PLANTAIN LILY. (*Funkia variegata*.) They prefer an abundant supply of water. \$1.00 for 3; \$2.50 per doz.

YELLOW DAY LILY. (*Hemerocallis Dr. Regel*.) Graceful grass-like foliage and rich orange-yellow flowers. Fragrant. \$1.00 for 3; \$2.50 per doz.

DWARF IRIS. (*Iris pumila*.) Beautiful little irises in blue, yellow or white for growing among rocks or in front of taller iris. \$1.00 for 3; \$2.50 per doz.

JAPANESE IRIS. (*Iris kaempferi*.) Delightful blue and violet flowers, graceful foliage and their effectiveness in massing make Japanese iris, ideal for marginal planting. They prefer an abundant supply of water. \$1.00 for 3; \$2.50 per doz.

SIBERIAN IRIS. (*Iris siberica*.) These tall graceful iris with their grassy foliage and white or violet-blue flowers are splendid for water-side planting. They prefer moist soil. \$1.00 for 3; \$2.50 per doz.

MOSS PINK. (*Phlox subulata*.) An early spring-flowering type with pretty mosslike, evergreen foliage that makes an excellent ground cover. White, blue or pink. \$1.00 for 3; \$2.50 per doz.

FALSE DRAGONHEAD. (*Physostegia virginica*.) Forms large clumps 3 to 4 feet high, bearing long spikes of tubular flowers. White or pink. \$1.00 for 3; \$2.50 per doz.

GOLDEN MOSS. (*Sedum acre*.) A dwarf sedum with fine foliage and bright yellow flowers. Excellent ground cover for sunny positions. \$1.00 for 3; \$2.50 per doz.

STONECROP. (*Sedum sarmentosum*.) Dwarf variety of rapid growth, fine for edgings or filling seams between rocks. \$1.00 for 3; \$2.50 per doz.

SPEEDWELL. (*Veronica rupestris*.) Low thickly matted plant. Deep green foliage covered in the Spring by a cloud of bright blue flowers. Likes full sun. \$1.00 for 3; \$2.50 per doz.

MARGINAL PLANT COLLECTIONS

To facilitate making a selection of marginal plants we offer the following combinations made up of assortments of varieties that will be most effective in providing a natural setting for your pool.

Small Pool Collection, \$3.00.

(Collection No. M1)

Includes 15 plants of six varieties.

General Pool Collection, \$5.00.

(Collection No. M2)

Thirty plants in eight or more varieties.

Beautify the setting of your Pool with Marginal Plants

COLLECTIONS OF WATER LILIES

The Convenient and Practical Way to Buy

MANY people, especially beginners in water gardening, are not familiar with the various types of water lilies, and numerous aquatic plants useful in the pool, so we are offering a number of collections including combinations of the finest varieties, designed to make attractive and harmonious groupings in any pool.

Three water lilies and a small collection of aquatic plants will thrive in a pool 4x6 feet, and a pool 6x8 feet will accommodate four or five lilies and a larger collection of aquatics. Larger pools will provide space for still more magnificent showings.

Choose collections to suit your needs and order by number.

Marliac Trio, \$4.00

(Collection No. N2)

Three of the most popular and best blooming hardy water lilies produced by Marliac. A fine basis for any garden pool planting.

MARLIAC WHITE. Free blooming pure white hardy lily.
CHROMATELLA. Best pure yellow. A universal favorite.
MARLIAC ROSE. Rose pink flowers, nicely cup-shaped.

Popular Collection, \$5.00

(Collection No. N4)

An economy collection of reliable favorites that will make a splendid showing in any pool.

MARLIAC WHITE. Pure white lily with yellow stamens.
CHROMATELLA. Yellow. The gem of any collection.
BLUE ZANZIBAR. Blue flowers in great profusion.
OMARANA. Variegated pink night bloomer.

Jewell Collection, \$5.00

(Collection No. N5)

A combination of colors that will harmonize to make a most colorful water garden. All are day bloomers.

CHROMATELLA. Bright canary yellow.
PINK OPAL. Deep rich pink, fragrant.
GLORICSA. Large dark red.

Junior Trio, \$3.50

(Collection No. N1)

A trio of hardy water lilies of small leaf spread, producing many dainty flowers in charming colors. Adapted to small pools.

AURORA. Rosy-yellow deepening to orange-red.
LAYDEKER CARMINE. Rosy carmine.
YELLOW PIGMY. Tiny flowers of bright yellow.

Aurora Collection, \$7.00

(Collection No. N16)

Colors of the dawn. A varied group of types that will show to advantage, and several of these varieties are particularly fragrant.

PAUL HARIOT. Rosy yellow deepening to orange-pink.
PINK OPAL. Deep pink, fine for cutting. Fragrant.
AUGUST KOCH. Pale Wisteria-violet. Very fragrant.
OMARANA. Variegated pink night bloomer.

Moonlight Trio, \$5.00

(Collection No. N9)

Three of the most exotic night blooming water lilies are included in this collection which is sure to lend a note of mystic enchantment to any water garden.

JUNO. Immense white flowers.
GEORGE HUSTER. Brilliant crimson flowers.
BISSETI. Delightful pink.

Sunset Collection, \$6.50

(Collection No. N6)

The warm sunset colors of this harmonious collection of varieties will appeal to those who admire the soft tones of a beautiful sunset.

CHROMATELLA. Pure canary yellow.
PAUL HARIOT. Yellow deepening to orange-pink.
GLORIOSA. Dark red flowers.

Variety Trio, \$5.00

(Collection No. N7)

A day and night blooming trio of varied types of water lilies, including a hardy yellow variety, a blue tropical and a pink night bloomer.

CHROMATELLA. Best hardy yellow.
PENNSYLVANIA. Beautiful blue day bloomer.
STURTEVANT. Choice pink night bloomer.

Quality Collection, \$7.50

(Collection No. N18)

Truly an ideal assortment of types and colors is included in this collection of choicest water lilies, making a harmonious group that will show to advantage in any medium sized pool.

COMANCHE. A coppery bronze, very free flowering.
MASANIELLO. Large carmine red flowers freely produced.
JUNO. Giant white night bloomer.
PENNSYLVANIA. Immense fine blue.

Pring Trio, \$6.50

(Collection No. N14)

George H. Pring of the Missouri Botanical Garden perfected the three popular varieties that are presented in this fine group. Their large size, fine form and pleasing colors are well known. All are day bloomers.

MRS. GEORGE H. PRING. Pure white.
MRS. EDWARDS WHITAKER. Giant blue.
GENERAL PERSHING. Deep pink.

Ideal Collection, \$10.50

(Collection No. N23)

Included in this group are favorites of undisputed superiority. They are acknowledged by fanciers to be the finest of all water lilies. A very desirable assortment.

CHROMATELLA. Best hardy assortment.
ATTRACTION. Dark red. Large cup-shaped flowers.
PENNSYLVANIA. Gigantic blue.
MARLIAC ROSE. Finest of the rose-pink types.

Super Seven Collection, \$15.00

(Collection No. N26)

This collection is made up of a series of superior varieties, each the most desirable in its class. It can readily be seen that these exceptional water lilies comprise a combination of super excellence.

ATTRACTION. Very free blooming deep red.
MORNING GLORY. Immense shell pink.
MRS. EDWARDS WHITAKER. Giant blue flowers.
JUNO. Supreme white night bloomer.
CHROMATELLA. Best all around yellow.
GENERAL PERSHING. Large deep pink.
COMANCHE. Coppery bronze.

TO THE CONNOISSEUR

We include only the fine selection of most desirable water lilies in our catalog, however we have many rare and interesting varieties which we can supply to those interested in collecting the more unusual types.

All of our plants are of largest size and very best of quality.

COMPLETE POOL COLLECTIONS

SO many of the inquiries which we receive are requests for our suggestions in planting and stocking pools of certain sizes, that we are recommending the following complete pool collections as being most suitable for the size pools indicated. Selecting the assortment that seems nearest to fitting your needs and ordering it by collection number is the easiest way to make certain of receiving plants and fish, scavengers and supplies that will enable you to stock your pool to the very best advantage.

Collection for Small Pool \$10.00

(Add 50 cents for shipping pail)

Collection No. C1.

For a pool 4x6 or 5x7 or 6 feet in diameter.

Three water lilies. Your choice of water lily collections:

Jewel Collection, No. N5.

Variety Trio, No. N7.

Twenty aquatic and moisture loving plants in 12 or more varieties. Aquatic plant collection No. A1, which includes:

- 2 Floating plants.
- 8 Shallow water plants.
- 4 Marsh plants
- 6 Oxygenating plants.

Fourteen goldfish in a collection including:

- 12 Selected goldfish.
- 2 Shubunkins.

Twenty Scavengers, Collection No. S1.

One Carton of Fertilizer.

One Carton of Balanced Fish Food.

A catalogue value of \$14.60 for \$10.00.



Hardy Water Lilies

Collection for Medium Sized Pool \$15.00

(Add 50 cents for shipping pail)

Collection No. C2.

For a pool 6x8 or 7x9 or 8 feet in diameter.

Four water lilies.

Quality collection No. N18.

Twenty aquatic and moisture loving plants.

Aquatic plant Collection No. A1.

Twelve goldfish in a collection including:

- 2 large Goldfish.
- 6 Medium Goldfish.
- 4 Medium Shubunkins.

Twenty Scavengers, Collection No. S1.

One Carton of Fertilizer.

One Carton of Balanced Fish Food.

A catalogue value of \$18.00 for \$15.00.

Collection for Average Sized Pool, \$22.00

(Add 50 cents for shipping pail)

Collection No. C3.

For a pool 8x10 or 10x12 feet in diameter.

Five finest water lilies.

Ideal Collection No. N23.

Thirty-two aquatic and moisture loving plants.

Aquatic Plant Collection No. A2.

Sixteen goldfish in a collection including:

- 12 Shubunkins.
- 4 Large Goldfish.

Twenty Scavengers, Collection No. S1.

One Large Carton of Fertilizer.

One Large Carton of Balanced Fish Food.

A catalogue value of \$26.50 for \$22.00.

Beginner's Tub Garden Collection

(See page 4)

We will send you a complete water garden including a large white cedar water lily tub, your choice of a white, pink, yellow or blue water lily, an interesting assortment of aquatic and marginal plants, and a pair of scavengers, enough to make a surprisingly attractive miniature lily pool, All complete F. O. B. at Columbus for.....\$5.00

Order Now

After reading our detailed instructions on making a water garden, plan your pool so as to conform to the cultural requirements of water lilies and the various types of aquatic plants.

Read our accurate descriptions of varieties and select the assortment of water lilies, aquatic plants, fish, scavengers and supplies that suit your requirements. Send us your order and we will give it prompt and careful attention. The plants, fish, scavengers and supplies we send will make it possible for you to derive the greatest enjoyment from this fascinating form of gardening.

Without any previous experience, you are assured of success if you follow the explicit directions included with each order. Our stock is of the very best quality, carefully handled and properly packed so that everything reaches you in the best condition to grow and thrive in your pool.

We have many letters received from satisfied customers throughout the United States, who are so pleased with the high class of our goods and the fine character of our service that they write and tell us about it.

Remember that a water garden can be started anytime during warm weather and a pool planted as late as July will make a showing this season and have a fine start for next season.

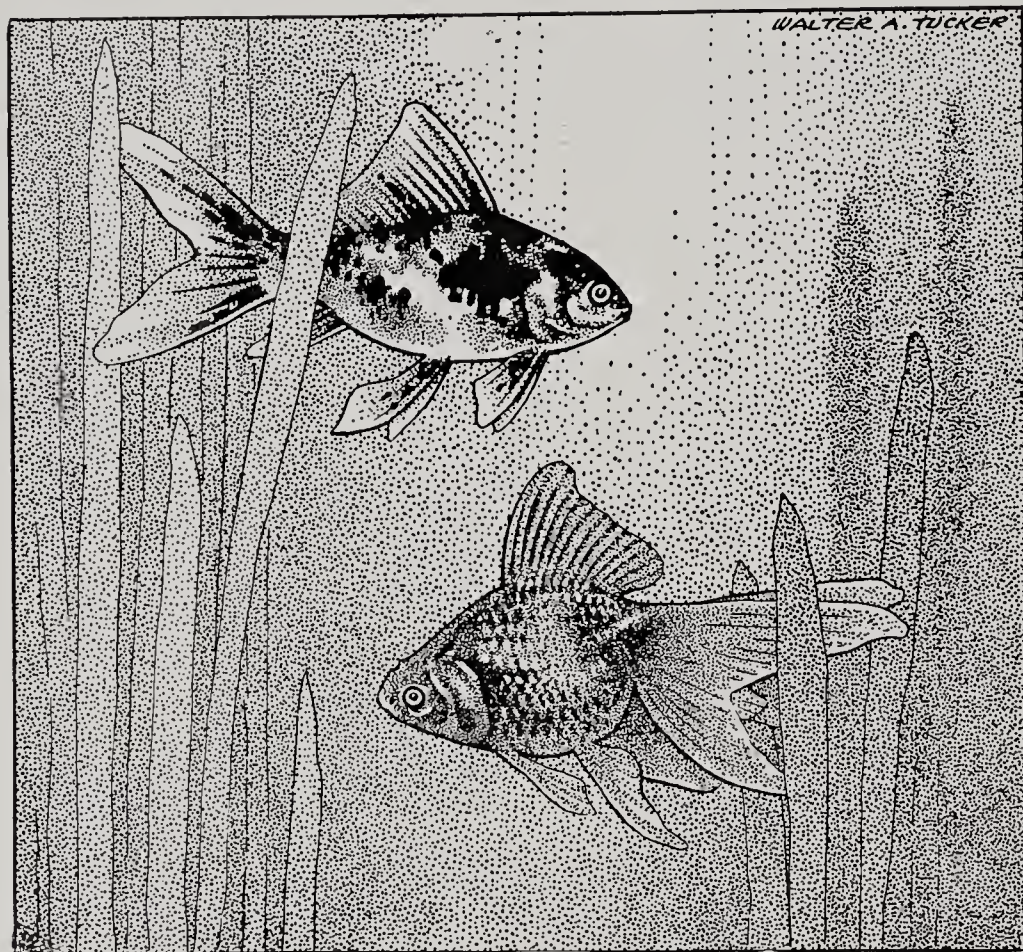
Fill out the order blank in the back of this catalogue and send us your order now.

Read our cultural directions and planting suggestions on page 2.

ORNAMENTAL FISHES

In a Pool or Aquarium

The attractiveness of goldfish in pools and aquariums has long been recognized and now the many varieties of brilliantly colored tropical fishes are becoming immensely popular.



The superiority of goldfish as ornamental and useful inhabitants of the garden pool is well known and it has been found that some tropical varieties, such as Paradise Fish, Sword-tails and Flag Fish are remarkably active in destroying mosquito larvae in the water garden, and are highly ornamental as well.

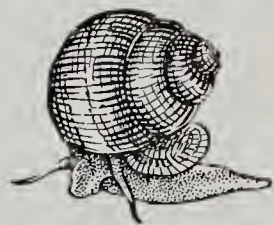
Almost every pool owner finds that the beautiful fish of his pool are far too attractive to leave outdoors or store away in a tub in the basement for the winter, and that a suitable aquarium is most desirable for keeping these interesting pets where they may be enjoyed during the winter months.

Fish in an outdoor pool require very little care, and the keeping of an indoor aquarium is a fascinating experience when the principles of the balanced aquarium are clearly understood and carefully followed.

Detailed information on aquarium management is available in a leaflet, "The Modern Home Aquarium," written by Walter A. Tucker and published by *Better Homes and Gardens* magazine. This leaflet contains much valuable information and many helpful suggestions. It may be obtained

by sending a 2-cent stamp to Dept L, The Home Service Bureau, *Better Homes and Gardens*, Des Moines, Iowa, and asking for leaflet No. B-G-52.

THE MODERN BALANCED AQUARIUM



The balanced aquarium which provides for the oxygen requirements of the fish by means of a number of growing submerged aquatic plants which absorb the impurities in the water and give off oxygen, is the ideal aquarium to own. Goldfishes and the various kinds of tropical aquarium fishes will thrive in it and many varieties will reward their owner by rearing large families of youngsters.

Old-fashioned fish globes are quite inadequate for aquarium purposes. Rectangular glass tanks with strong metal frames, large enough to accommodate an abundant growth of plant life, are best for insuring success. For goldfish, at least a gallon of water should be allowed for each inch of fish length, exclusive of the tail, but for small tropicals, half this amount is sufficient if the aquarium is well planted. In an aquarium not balanced with plant life, at least 20 square inches of water surface should be allowed for each inch of fish body.

Goldfish do well at ordinary room temperature and are hardy at low temperatures. Tropicals thrive in water at room temperature, or 68 to 74 degrees, but few can stand a continued temperature of 60 degrees or below. Some varieties will live in water at 45 degrees or lower, but such low temperatures are not recommended. Fish can stand considerable variation in temperature if the changes are gradual, but sudden changes of

temperature are injurious to all fishes and frequently cause sickness and death. An aquarium thermometer is a safeguard against errors, and a glass cover on a balanced aquarium helps to keep the temperature uniform and also prevents the fish from jumping out.

Feeding aquarium fishes is greatly simplified by the use of scientifically prepared balanced fish foods and sun dried shrimp. Goldfish should be fed about three times a week and tropicals may be fed daily. At no time should fish be fed more than they consume entirely in a few minutes, as over-feeding is the most common cause of foul water and diseased fish in the aquarium. A floating glass feeding ring should be used to prevent fish food from scattering and settling where the fish cannot find it. Occasional feedings of small portions of finely chopped earth worms, canned salmon or scraped lean beef are beneficial. Enchytrae or white worms are an excellent live food for aquarium fishes and are easily raised in a small box of soil.

Cleanliness in the aquarium is attained by the use of scavengers, especially snails, and by occasional cleanings with a dip tube or a siphon made from a short length of glass tubing and a few feet of rubber hose, to remove accumulated refuse. The green algae that collects on the stones in an aquarium is a natural growth and should not be removed as it adds to the natural beauty of the aquarium and is a valuable food for the fish. An excessive growth of algae on the glass sides of the tank can be removed with a safety razor blade fixed to the end of a stick.

Our Ideal Balanced Fish Food is essential to the health and growth of your fish.

FANCY GOLDFISH

Goldfish varieties as we have them today represent fairly well defined types with distinctive shapes, unusual coloring and fancy fin development. Fine specimens often bring prices in the hundreds of dollars, but strikingly beautiful fish that do not meet the highest standards demanded by breeders of rare types, are available at prices far below those asked for perfect specimens. These fish approximate closely the fine types recognized by the fancier and are exceedingly attractive aquarium specimens, but they vary slightly in development.



It is almost impossible to quote exact prices on fancy goldfishes owing to the variation in development, but we give an approximate range of values, and we will do our best to follow your preference for certain types.

SELECTED COMMON GOLDFISH. Fine hardy goldfish beautifully marked in black, white, gold and silver.

2-4" \$1.50 for six; \$2.50 a doz.
4-6" \$2.00 for six; \$3.50 a doz.
6-8" \$1.50 a pair; \$8.00 a doz.
8-9" Breeders \$2.00 a pair; \$10.00 a doz.
10-12" Giants \$5.00 a pair.

COMET TAILED GOLDFISH. Selected goldfish with long flowing fins and tails.

3-5" \$1.00 a pair; \$5.00 a doz.
5-7" \$1.50 a pair; \$7.50 a doz.

SHUBUNKINS. Beautifully mottled goldfish with transparent scales and calico colors. An active and hardy fish especially popular for the garden pool.

3" \$1.00 a pair; \$5.00 a doz.
4" \$1.50 a pair; \$8.00 a doz.
5" \$2.00 a pair; \$10.00 a doz.

JAPANESE FANTAILS. Deep bodied fish with large fan-shaped tails. Colors are red, gold, white and black.
\$1.00 to \$3.00 a pair.

CALICO FANTAILS. Similar to the Japanese Fantail except that the scales are transparent and the colors vary from red and white, to red, black, blue, yellow, purple and white—at times all on one fish. A remarkably attractive and inexpensive aquarium fish.

\$1.50 to \$5.00 a pair.

CHINESE TELESCOPES. Goldfish of grotesque appearance with curious protruding or telescopic eyes. They occur in all colors, some with fan tails and others with single tails.

Red Telescopes, \$1.50 to \$3.00 a pair.
Black Telescopes (Moors) \$1.50 to \$5.00 a pair.
Calico Telescopes (Scaleless) \$1.50 to \$7.50 a pair.

VEILTAIL GOLDFISH. (Fringetails.) The highest degree of development in breeding fancy goldfish is attained in the short, deep bodied veiltails, with fins and tail, double, long and flowing. Some have highly developed telescope eyes and many are calico types, with transparent scales and mottled colors. Veiltail goldfish are not always available except on special order.

Veiltail Japs, \$7.50 to \$15.00 each.
Veiltail Calico Telescopes, \$7.50 to \$15.00 each.
Veiltail Moors, 7.50 to \$15.00 each.

COLLECTIONS OF GOLDFISHES

Our selection of varieties for these collections makes each group an attractive and interesting assortment for your aquarium. Any one is sure to please you.

No. F1. For a small pool or aquarium. An assortment of 8 fish, including Shubunkins, Fantails, Comets, etc. With shipping can for \$4.00.

No. F2. For moderate sized pool or aquarium. Ten fish of 5 varieties, including Shubunkins, Japanese Fantails, Calico Fantails, Comets, etc. With shipping can for \$6.00.

No. F3. A general assortment of 12 fine fish, including Japanese Fantails, Calico Fantails, Telescopes, Comets, etc. A choice group for an aquarium and a splendid collection for the average pool. With shipping can for \$8.50.

No. F4. Included in this highly ornamental group are 12 beautiful specimens such as Moors, Calico Telescopes, Fantails, Comets, etc. These fish are of fine color and form, with well developed fins. With shipping can for \$12.00.

TROPICAL FISHES

The varied types, brilliant colors, and unusual habits of tropical aquarium fishes make them of exceptional interest to the home aquarist. Many of them propagate readily in an aquarium, especially the live bearing varieties, which produce live young fish, instead of depositing eggs that hatch later.

We offer a select list of the finest and most satisfactory varieties of tropicals. You will delight in a community tank containing a "happy family" group of fascinating types that will live in harmony, or you may care to experience the thrills of watching some of the more temperamental types go about their family duties in rearing their young.

Tropical fishes of the live bearing type thrive in the outdoor pool after the temperature averages 70 degrees. They must be taken indoors in the fall before cool weather.

Paradise fish are valuable in the outdoor pool for destroying the larvae of insects that deposit eggs in the water.

LIVE BEARING FISHES

Rainbow Fish or Guppy.....	\$2.00 per doz.
Mexican Swordtail	\$1.00-\$2.00 pair
Moons or Platies.....	1.25 pair
Blue, Gold, Red, or Spotted	
Blood Red Moons.....	2.00 pair
Sailfins	1.25 pair
Black Mollies	1.25- 3.00 pair

DANIOS

Zebra or Striped Danio.....	1.25 pair
Pearl Danio	2.00 pair
Malabar or Giant Danio	2.50 pair

BARBELS

Rosy or Spotted Barbel.....	1.25 pair
Striped Barbel	2.00 pair
Ticto	1.25 pair

CHARACINS

Silver Tetra	1.25 pair
Tetra von Buenos Aires.....	2.50 pair
Tetra Ocellifer	2.50 pair
Pristella Ridley	3.00 pair
Tetra von Rio.....	2.50 pair

PANCHAX

Red-spotted Panchax	3.00 pair
Panchax Playfairi	2.50 pair
Panchax Parvus (Von Madras).....	3.00 pair

BUBBLE NEST BUILDERS

Three-spot Gourami	2.00 pair
Dwarf Gourami	3.00 pair
Paradise	1.25 pair

CICHLIDS

Angel Fish (Scalare).....	3.00 to 15.00 pair
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MISCELLANEOUS

Flag Fish	2.00 pair
Chaetodon (will live in cold water).....	2.00 pair
Cardinal Fish (will live in cold water).....	.75 pair
Weather Fish (interesting scavenger).....	2.00 pair

COLLECTIONS OF TROPICALS

Groups that have been planned with care, and designed to give you an interesting assortment of varieties that harmonize in type and temperament.

No. F11. A "happy family" collection comprising an assortment of fascinating tropical fishes of peaceful habit, known to get along agreeably together. Live bearers, Danios, Barbels and Characins are desirable members of this group which is sure to please you. For an 11 gallon aquarium. With shipping can for \$8.00.

No. F12. A varied assortment of tropicals that will live in harmony. Besides Live Bearers, Danios, Barbels, Characins, and Flag Fish, there are air breathing bubble nest builders included in this general assortment that is designed to make a fine showing in a 17 gallon aquarium. With shipping can for \$12.00.

NOTE:—Tropical fishes are shipped with safety only in warm weather, or from June to October.

Any one of our carefully planned collections of fishes is sure to please you.

SCAVENGERS FOR POOL AND AQUARIUM



Natural scavengers are essential for cleanliness in the garden pool or the balanced aquarium. They prevent the excessive growth of algae and devour decaying vegetation, as well as consuming excess food which might otherwise pollute the water.

JAPANESE SNAILS	3 for 50c; \$1.50 a doz.
CORAL SNAILS	3 for 50c; 1.75 a doz.
BLACK RAMSHORN SNAILS	3 for 25c; .75 a doz.
AFRICAN SNAILS	3 for 25c; .75 a doz.
AUSTRALIAN SNAILS	3 for 50c; 1.75 a doz.
TRUMPET SNAILS	3 for 25c; .75 a doz.
AMERICAN NEWTS	3 for 50c; 1.50 a doz.
JAPANESE SALAMANDERS	2 for 50c; 2.50 a doz.
GEOGRAPHIC TURTLES	2 for 50c; 2.00 a doz.
TADPOLES	3 for 25c; .75 a doz.
WEATHER FISH	\$2.00 a pair; 7.50 a doz.
CLAMS	3 for 50c; 1.50 a doz.
GREEN FROGS	2 for 75c; 3.00 a doz.

COLLECTIONS OF SCAVENGERS

No. S1. For an average aquarium or a small pool. A general assortment of 20 scavengers including Japanese Snails, Black Ramshorn Snails, African Snails and Tadpoles, etc. Including shipping can, for \$2.00.

No. S2. For a large aquarium or an average pool. An interesting collection of 30 scavengers including Coral Snails, Japanese Snails, Black Ramshorn Snails, African Snails, Tadpoles, Salamanders and Geographic Turtles. Including shipping can, for \$3.50.

OXYGENATING PLANTS FOR THE AQUARIUM

Plants for the aquarium, to grow submerged and purify the water keeping it clear and wholesome. Necessary for balancing an aquarium so that it becomes unnecessary to change the water. They will grow in an inch or two of washed sand in the bottom of an aquarium.

ANACHARIS. A luxuriant plant of rapid growth. 50c for 3 bunches; \$1.50 per doz.

BROAD LEAF SAGITTARIA. Broad dark green leaves. 50c for 3; \$1.50 per doz.

VALLISNERIA. Italian variety. Long ribbon-like leaves. The most reliable aquarium plant. 75c per doz.

LUDWIGIA. Leaves green above and scarlet beneath. 50c for 3 bunches; \$1.50 per doz.

FLOATING ELODEA. An excellent protective covering for young tropical fishes. 50c per portion.

BLADDERWORT. A mass of bright green stems growing near the surface of the water. 50c a portion.

SPATTERDOCK. An ornamental plant with light green leaves. 50c for 3.

COLLECTIONS OF AQUARIUM PLANTS

Assortments of the best oxygenators including Vallisneria, Sagittaria, Anacharis, etc., sufficient to balance aquariums of the sizes indicated.

No. B1. For an 11 gallon aquarium. Postpaid for \$1.25.

No. B2. For a 17 gallon aquarium. Postpaid for \$2.00.

No. B3. For a 29 gallon aquarium. Postpaid for \$3.00.

LET US ADVISE YOU

If you are uncertain about the selection of fishes, plants and supplies for your aquarium, write us giving a general idea of what you have in mind and we will be glad to suggest in detail what would be advisable to order. Let us help you with your problems in aquarium management.

FISH FOOD AND SUPPLIES

For your convenience we carry a complete stock of dependable supplies. Our fish foods are carefully prepared and tested and are essential to the health and growth of your fish. They contain the vitamins so necessary to sustain life.

IDEAL BALANCED FISH FOOD. A prepared cereal and meat food for goldfish and tropicals. Furnished in two grades, fine or coarse. Tin, 20c; Half lb., 60c; lb., \$1.00.

IDEAL SUN DRIED SHRIMP. An excellent natural food for goldfish and tropicals. Furnished in two grades, fine or coarse. Tin, 20c; half lb., 60c; lb., \$1.00.

IDEAL BABY FISH FOOD. A balanced food to promote rapid growth of young fish. Increases the development of infusoria, a natural food for newly hatched fish. 35c a tin.

ENCHYTRAE OR WHITE WORMS. Live food. Easily raised in sandy soil. Single portion 60c; liberal double portion, \$1.00.

IDEAL AQUARIUM SALT. A natural product for regular use in the aquarium, and especially valuable in treating sick fish. 35c a pint; 50c a quart.

IDEAL AQUARIUM SHELLS. Pure calcium sulphate cast in attractive shell patterns for maintaining a neutral condition in aquarium water. They furnish calcium for snails and fish. 25c for three.

IDEAL CHEMICAL SHELLS. Aquarium shells which maintain a chemical balance in the aquarium and destroy germs, especially the Ichthyophthirius parasite. 35c for three.

PERMANGANATE. Antiseptic for destroying pathogenic organisms. Convenient 1 grain tablets. 50c per bottle.

AQUARIUM SAND. Thoroughly washed sand for use in growing oxygenating plants in an aquarium. Choice of fine white silicon sand, or fine brown gravel. 50c for 10-lb. bag.

PLANT POTS. Clay pots to use in an aquarium for growing plants which require soil. Size 4 1/2 x 3 1/2 x 2 3/4. 25c each.

GLASS DIP TUBES. For removing sediment. 60c for 14 in., 75c for 18 in.

FEEDING RINGS. Floating rings of glass tubing to keep fish food from scattering. Three inch. 20c each.

FLOATING THERMOMETERS. For temperature control in the aquarium. 50c and 75c each.

FEEDING RINGS. For white worms or Enchytrae. 50c each.

FISH NETS. Large 14 in. size for pools. \$1.85.

FISH NETS. Cloth on wire frames. 15c for 3 in., 20c for 5 in.

AQUARIUM CEMENT. Ready to use. Half lb., 25c; lb. 50c.

AUTOMATIC ELECTRIC AQUARIUM HEATER. A practical and economical device for maintaining uniform temperature in the aquarium. Adjustable thermostatic heat control. Absolutely safe and reliable. Furnished with six feet of special heavy asbestos-covered cord and attachment plug.

Combination thermostat and heater: 10 inch, \$6.00; 12 inch, \$6.25; 14 inch, \$6.50; 16 inch, \$6.75.

Single Thermostat, \$4.50.

Single heater: 10 inch, \$2.00; 12 inch, \$2.25; 14 inch \$2.50; 16 inch, \$2.75.

Specify if for metal frame tank or glass tank without metal frame around top.

IDEAL WATER GARDEN PLANT FOOD. Our own special mixture that is certain to produce the best results in your pool. Use one pound of plant food to a bushel of soil, thoroughly mixed. A package is sufficient for five bushels of soil. 50c per package.

INTERESTING BOOKS



The best way to insure success in managing an aquarium or a pool is to be guided by a good book on the subject.

The Water Garden, by Peter Bisset. A complete treatise on the water garden. Contains 210 pages and is profusely illustrated. \$5.00.

Goldfish Varieties and Tropical Aquarium Fishes, by Wm. T. Innes. Covers the subject completely and comprehensively. \$4.00.

The Modern Aquarium, by Wm. T. Innes. A new and concise book on the management of the aquarium. A valuable handbook. \$1.00.

To succeed with fishes you should have a good book to refer to.

ORNAMENTAL AQUARIUMS

WE offer an assortment of styles and range of sizes in ornamental aquariums that make it possible for you to select an attractively designed and well built aquarium perfectly suited to your particular needs. Quality aquariums in cast aluminum are highly ornamental and extremely serviceable tanks for use in the home. The strong wrought iron stands made for these aquariums are very attractive in appearance.

Our special utility aquarium is constructed of angle drawn aluminum instead of pressed sheet aluminum, and an unusual value for the home aquarist who wants maximum capacity, combined with durability and beauty, at low cost.

The standard utility aquariums represent a low priced group of substantial tanks in convenient sizes, that will give excellent service.

All aquariums are priced F. O. B. at the factory and are sent by freight or express.

STANDARD UTILITY AQUARIUMS. Frames all-steel, electrically welded, selected glass sides. Finished in green and gold. Standard Utility Aquarium meet all the requirements of fish fanciers who require serviceable tanks of low cost for all purposes. No. 107 and No. 207 are particularly desirable as community tanks for tropical fishes or a few fancy goldfish. The smaller sizes are useful especially where several may be arranged in a row for separating varieties for breeding purposes.

The specially built wrought iron stands for these aquariums are very practical for home use and low in price. They are distinctive in design and ornamental as well as useful.

No. 103—14x8x10—4.8 gallons, \$3.00; complete with stand, \$6.50.

No. 104—16x9½x10—6.5 gallons, \$4.00; complete with stand, \$8.00.

No. 106—18½x11x12—10.5 gallons, \$7.00; complete with stand, \$11.50.

No. 107—22x13x14—17.4 gallons, \$9.50; complete with stand, \$19.50.

Utility Aquarium No. 107 is of heavier metal than the other tanks of this series and is of very sturdy construction. It is equipped with new style ball footings. This aquarium represents an economy value exceeded only by the Special Utility Aquarium No. 207 which is made of drawn angle aluminum.

SPECIAL UTILITY AQUARIUM. Sturdily built of angle drawn aluminum, with reenforced corners. Double strength glass sides and heavy glass bottoms. Attractive, serviceable and economical.

No. 207—22x13x14—17.4 gallons, \$15.00; complete with stand \$25.50.

HANDY SMALL AQUARIUMS. For pairs of tropicals, young fish or snails. Steel frames, finished in green and gold.

No. 301—10x6x7—1.5 gallons, \$1.20 each; six for \$6.00.

No. 302—12x7x7—2.5 gallons, \$2.50 each; three for \$6.75.

QUALITY CAST ALUMINUM AQUARIUMS. Frames are made of heavy cast aluminum in simple and pleasing design, without the upper metal rim, sides of bulb edge selected glass. Heavy bottoms except No. 911 which is heavy slate.

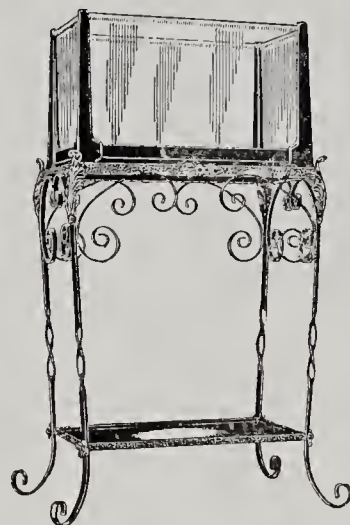
Quality aquariums with ornamental stands of substantial construction are of utmost convenience in placing an aquarium in the home and are especially attractive in appearance. These splendid tanks with strong wrought iron bases finished either in polychrome or antique black are offered in three convenient sizes.

No. 902—16x9x10—6.0 gallons, \$13.50; complete with stand, \$24.00

No. 903—20x11x12—11.4 gallons, \$18.00; complete with stand, \$30.00.

No. 911—30x14x16—29.0 gallons, \$42.50; complete with stand \$67.50.

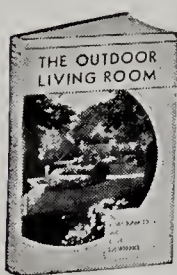
(No. 911 can be furnished with a plain angle iron base of sturdy construction for \$57.50.)



POPULAR HOME AQUARIUM. New model aquarium of strong angle iron construction without metal frame around top. Sides of bulb-edge selected glass. Dark green.

No. 203—14x8x10—4.8 gallons, \$4.00.

No. 204—16x9½x10—6.5 gallons, \$5.00.



The Outdoor Living Room.....\$2 50
By L. W. Ramsey and C. H. Lawrence

Every step in planning, planting and development of an attractive, private, and livable room out of doors is made clear in its pages.

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By H. S. Orloff and H. B. Raymore

The answer to—how to prune, fertilize, spray and care for flowers, trees, shrubs and lawns.

Garden Pools: Large and Small.....\$2.50
By L. W. Ramsey and C. H. Lawrence

Water gardening is fully explained in this practical new book.

Adventures in a Suburban Garden.....\$3.50
By Louise Beebe Wilder

A book that leads from garden thrill to garden thrill while you sit back in enjoyment, absorbing valuable suggestions and making plans for improvements in your own garden.

The Book of Annuals.....\$1.50
By Alfred C. Hottes

Complete handbook on the growing of annuals.

GARDEN BOOKS

Creative handbooks supplying the practical information necessary to successful gardening. You can have a well-designed garden, harmonious in color, and flowering as and when you want it, by using the information in the books described below. With only a small investment in these helpful books you can achieve results out of all proportion to the seeds and plants you buy.

All books sent postpaid.

The Modern Nursery.....\$5 00
By Alex Laurie and L. C. Chadwick

Practical information for the amateur as well as the commercial nurseryman.

The Book of Perennials.....\$1.50
By Alfred C. Hottes

The growing, using, selection and propagation of perennials.

1001 Garden Questions Answered.....\$2.00
By Alfred C. Hottes

All garden problems answered in this ready reference book on gardening.

The Book of Shrubs.....\$3.00
By Alfred C. Hottes

Complete book on care and culture of the common and some of the uncommon shrubs.

Landscaping the Home Grounds.....\$2.00
By L. W. Ramsey

Step by step development of the home grounds for greatest beauty.



WATER LILIES



The Mystic Flowers of Ancient Egypt

There is a hint of mystery, a suggestion of something supernatural in the delicate beauty and rare fragrance of a water lily blossom, and it is not difficult to understand why these flowers meant so much in the life and religion of the early Egyptians. Ancient hieroglyphics and preserved petals of the white and the blue lotus of the Nile, found wrapped with mummies indicate that the culture and appreciation of water lilies dates back to the time of the Egyptian Pharaohs, even to the Twelfth Dynasty (about 2500 B. C.).

The modern water garden is less trouble than any other form of garden, unaffected by hot, dry weather, requiring no weeding or cultivating, and producing flowers of many hues and types, some opening to the warm rays of a rising sun, and others unfolding only in deepening twilight to show their loveliness under the night sky. Most of them are suitable for cutting and using indoors.

A water garden is not only a practical possibility but a real opportunity for the home gardener, and charming effects can be produced in a little space and at slight expense.